

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/597, 173 A
Source: PCT - efs
Date Processed by STIC: 9-11-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



IFWP

RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:03

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

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1 <110> APPLICANT: GENEIN CO., LTD.
2     KIM, Cheol-Min
3     PARK, Hee-Kyung
5 <120> TITLE OF INVENTION: Oligonucleotide for genotyping of Mycoplasma, microarray
6     comprising the oligonucleotide, and method for detection of
7     species using the microarray
9 <130> FILE REFERENCE: PN053079
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/597,173A
C--> 11 <141> CURRENT FILING DATE: 2006-07-13
11 <160> NUMBER OF SEQ ID NOS: 133
13 <170> SOFTWARE: KopatentIn 1.71
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 344
17 <212> TYPE: DNA
18 <213> ORGANISM: M.bovis
20 <400> SEQUENCE: 1
21 ttctacggag tacacttgct ttttatcact ataaaaaaaa gacttataac caaaattact      60
23 agacctatat ttatttataa acgtcatggc ttttattaat aggtcaaaaag ctatatatct      120
25 agttttgaga gaacattctc tcatatgttc ttgaaaact gaatagtaaa atatttttcg      180
27 atatttacaa cgacatcaaa aatcaaatga atggttaatt tgttttgatt catcgagtaa      240
29 gtcataattta atatgattca ttgaaatgtc ttaaaataca catctaaac taacaacaat      300
31 aggaaaatac tactttttaa taaggaagag tttttggtgg atgc      344
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 196
36 <212> TYPE: DNA
37 <213> ORGANISM: M.cloacale
39 <400> SEQUENCE: 2
40 cttctacgga gtacaattct cactgttatg gaattaaatt tgtatccagt tttgagagaa      60
42 ctttctctca attttgttct ttgaaaactg aatatagaca ttgaaatcaa taaattaata      120
44 tttcaaatgt ttagatcaac ctatagaata ttcaagacat atacaaaaat aggtcatact      180
46 tatatttata aatact      196
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 196
51 <212> TYPE: DNA
52 <213> ORGANISM: M.falconis
54 <400> SEQUENCE: 3
55 ctttctacgg agtacaactt ctgttatgga ataatatgtg tatccagttt tgagagtact      60
57 aactctcttt ttgttctttg aaaactgaat atcgacattg aaaaattatt aattaatatt      120
59 tcaaagttta gatcaaccta tagaatacaa aaatatagac aacaataggt catacaacaa      180
61 acataacaaa acaact      196
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 239
66 <212> TYPE: DNA

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RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:03

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

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67 <213> ORGANISM: M.faucium
69 <400> SEQUENCE: 4
70 gaatggtggc ttcgagacta aaagtatatg aaaaacatcg tatccagttt tgagagaact      60
72 aaactttctct cttttgttct ttgaaaactg aatatagaca ttgaaaatta aaaaattaat      120
74 atttcaaagt ttagatcaac ctatagaata caaaatcaat acaataggtc aatactatac      180
76 aattgcataa caaaaaatac tattaacaaa gataagagtt tttggtggat gcaattgta      239
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 340
81 <212> TYPE: DNA
82 <213> ORGANISM: M.spermatophilum
84 <400> SEQUENCE: 5
85 gtggggatgg atcacctcct ttctacggag tacaaacata cattcaaatt ttgactgaat      60
87 gttattaacc ttattttttc actaggcctt tttaatatat tttgttatgt gacttttatg      120
89 gcctaaaagt cttatatcta gttttgagag gacatcctct ctaattgttc tttgaaaact      180
91 gaatagtaaa ttttttgata tttacaacga catctaaata attgaattaa gtcaatttgt      240
93 ttagatttca tcgagatagt cattttaaaa aaatgattca ttgaaatgtc ttaaaatata      300
95 catcaaaaca acaatctat acaataggaa tttatatact      340
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 322
100 <212> TYPE: DNA
101 <213> ORGANISM: M.synoviae
103 <400> SEQUENCE: 6
104 tccttacgga gtacattaat ttacaaaaag gcatttttat taactgaaag cttttagaga      60
106 aaaattctaa aagcggttgt gtatcgcttt ttttgccttg ggctattgta tttagttttg      120
108 agagaacaac ctctcttaaa attgttcttt gaaaactaaa tagtaataaa gatattacaa      180
110 cgacatcaaa aatataaatt aattaagggtt aatttgtttt gataccgagt ttaaattatt      240
112 gaataataat ttattaaaaat gtctttgaat acatcataac aatataacaa taggacatat      300
114 tgatactaac ttttaaaaaa gt      322
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 15
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
126 <400> SEQUENCE: 7
127 ttctttgaaa actga      15
130 <210> SEQ ID NO: 8
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Probe for detecting Mycoplasma
139 <400> SEQUENCE: 8
W--> 140 rwtctttvaa aactrratvn — see page 7      20
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 21
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:03

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

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149 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.
152 <400> SEQUENCE: 9
153 mwtygtrtcc agttttgaga g                                     21
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 21
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Probe for detecting M. arginini, etc.
165 <400> SEQUENCE: 10
166 tttagatcaa cctatagaat a                                     21
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 21
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
178 <400> SEQUENCE: 11
179 rtatyttagtt ttgagagrrc a                                     21
182 <210> SEQ ID NO: 12
183 <211> LENGTH: 21
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
191 <400> SEQUENCE: 12
192 wwtrattyat traaatgtct t                                     21
195 <210> SEQ ID NO: 13
196 <211> LENGTH: 17
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
204 <400> SEQUENCE: 13
205 ggkyaatttg tttwgat                                         17
208 <210> SEQ ID NO: 14
209 <211> LENGTH: 18
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Probe for detecting M. bovis, etc.
217 <400> SEQUENCE: 14
218 ratatttaca mcgmcayc                                         18
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 21
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.

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RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:03

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

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230 <400> SEQUENCE: 15
231 cctccttttct atcggagtam a 21
234 <210> SEQ ID NO: 16
235 <211> LENGTH: 21
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Probe for detecting M. muris, etc.
243 <400> SEQUENCE: 16
244 cggattctat ttagttttga g 21
247 <210> SEQ ID NO: 17
248 <211> LENGTH: 21
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
256 <400> SEQUENCE: 17
257 taaaatagat accttaakat a 21
260 <210> SEQ ID NO: 18
261 <211> LENGTH: 17
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
269 <400> SEQUENCE: 18
270 gtatyyagtt ttgaaag 17
273 <210> SEQ ID NO: 19
274 <211> LENGTH: 16
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Probe for detecting M. neurolyticum, etc.
282 <400> SEQUENCE: 19
283 cttgccaaawt agwtwt 16
286 <210> SEQ ID NO: 20
287 <211> LENGTH: 21
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.
295 <400> SEQUENCE: 20
296 awacracaat ctttctagtt c 21
299 <210> SEQ ID NO: 21
300 <211> LENGTH: 21
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Probe for detecting M. genitalium, etc.
308 <400> SEQUENCE: 21

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RAW SEQUENCE LISTING

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:03

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

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309 aataagttac taaggccta t 21
312 <210> SEQ ID NO: 22
313 <211> LENGTH: 18
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
321 <400> SEQUENCE: 22
322 tcatcatatt cagttttg 18
325 <210> SEQ ID NO: 23
326 <211> LENGTH: 21
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
334 <400> SEQUENCE: 23
335 gggcctrtag ctcagytggt t 21
338 <210> SEQ ID NO: 24
339 <211> LENGTH: 21
340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
347 <400> SEQUENCE: 24
348 agagcrcwgc cytgataagc g 21
351 <210> SEQ ID NO: 25
352 <211> LENGTH: 21
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial Sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
360 <400> SEQUENCE: 25
361 wgrggtcgat ggttcragtc c 21
364 <210> SEQ ID NO: 26
365 <211> LENGTH: 21
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:
370 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
373 <400> SEQUENCE: 26
374 tcatcatatt cagttttgar r 21
377 <210> SEQ ID NO: 27
378 <211> LENGTH: 21
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial Sequence
382 <220> FEATURE:
383 <223> OTHER INFORMATION: Probe for detecting Acholeplasma
386 <400> SEQUENCE: 27
387 agtctttgaa aagtagataa a 21

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/11/2006
PATENT APPLICATION: US/10/597,173A TIME: 13:45:04

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt
Output Set: N:\CRF4\09112006\J597173A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 20

VARIABLE LOCATION SUMMARY

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:04

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:8; N Pos. 20

VERIFICATION SUMMARY

DATE: 09/11/2006

PATENT APPLICATION: US/10/597,173A

TIME: 13:45:04

Input Set : N:\efs\10597173A_efs\SEQ_LISTING_10597173.txt

Output Set: N:\CRF4\09112006\J597173A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:140 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:8
L:140 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0